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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,460	12/19/2001	Erlend Ronnekleiv	2036-200	1781
6449 75	6449 7590 03/25/2004		EXAMINER	
	FIGG, ERNST & M	TURNER, SAMUEL A		
1425 K STREET, N.W.				
SUITE 800			ART UNIT	PAPER NUMBER
WASHINGTO	N, DC 20005		2877	

DATE MAILED: 03/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/018,460	RONNEKLEIV, ERLEND			
		Examiner	Art Unit			
		Samuel A. Turner	2877			
Period fo	The MAILING DATE of this communication apports.	pears on the cover sheet with the c	correspondence address			
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period or the toreply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	nely filed /s will be considered timely. If the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on					
2a)□	This action is FINAL . 2b) This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1-13 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
11)□	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex					
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureasee the attached detailed Office action for a list	es have been received. Es have been received in Application Trity documents have been receive Tu (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachmen	ıt(s)					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	r (PTO-413) ate				
3) 🛛 Infor	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Provious Provious Patement(s) (PTO-1449 or PTO/SB/08) Provious Provious Patement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)			

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DETAILED ACTION

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Abstract

This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

Specification

- § 1.125 Substitute specification.
- (b) A substitute specification, excluding the claims, may be filed at any point up to payment of the issue fee if it is accompanied by:
- (1) A statement that the substitute specification includes no new matter; and
- (2) A marked up version of the substitute specification showing all the changes (including the matter being added to and the matter being deleted from) to the specification of record. Numbering the paragraphs of the specification of record is not considered a change that must be shown pursuant to this paragraph.
- (c) A substitute specification submitted under this section must be submitted in clean form without markings as to amended material. The paragraphs of any substitute specification, other than the claims, should be individually numbered in Arabic numerals so that any amendment to the specification may be made by replacement paragraph in accordance with § 1.121(b)(1).

The substitute specification filed 15 August 2003 has not been entered because it does not conform to 37 CFR 1.125(b) and (c) because while the substitute specification conforms to 37 CFR 1.125(b) and clean copy(form) was not submitted.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors. Please note that the use of the terms "adapted to" and "capable" are not positive limitations but only requires the ability to so perform. They do not constitute a limitation in any patentable sense.

In claims 1 and 8 the phrase "sustained elimination or reduction" is indefinite in that the scope of the phrase includes both a broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation.

Thus the resulting claims do not clearly set forth the metes and bounds of the patent protection desired.

In claims 1 and 8 the metes and bounds of the phrase "is comparable to or higher than $1/(4\tau)$ are indefinite. While higher than $1/(4\tau)$ is definite the scope defined by "comparable" is indefinite. The range covered by "comparable" is not defined.

Claim Rejections - 35 USC § 102

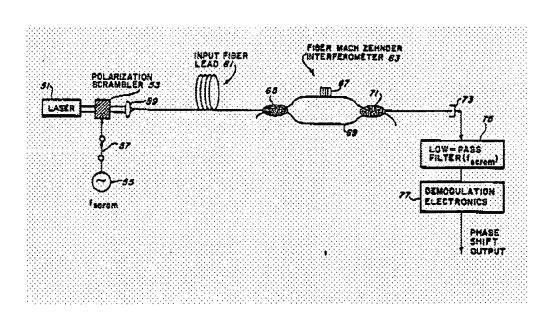
The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5-8, and 11-13 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kersey et al(5,104,222).

Kersey et al teach a system for minimizing polarization induced noise(fading) comprising a laser(51), polarization scrambler(53), oscillator(55), Mach-Zehnder interferometer(63) which has two different paths(67,69), detector(73), and a signal processing unit(75,77) for producing the phase shift output. The oscillator drives the polarization scrambler with a high frequency f_{scram} which is higher than 1/(4τ). Kersey includes all two path interferometers which includes Mach-Zehnder, Michelson, and Fizeau(low finesse Fabry-Perot). Note that the use of the terms "adapted to" and "capable" are not positive limitations but only requires the ability to so perform. They do not constitute a limitation in any patentable sense. With regard to claims 5-7; these claims are merely intended use and do not further the method of claim 1. See figure 5.



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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel A. Turner whose phone number is **571**-**272-2432**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font, can be reached on **571-272-2415**.

The fax phone number for the organization where this application or proceeding is assigned is **703-872-9306**.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is **571-272-1562**.

Any other inquiry of a technical nature, and all inquiries of a general nature or any patent term adjustment should be directed to TC2800 Customer Service Office whose telephone number is **571-272-1585**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at **866-217-9197** (toll-free).

Samuel A. Turner Primary Examiner Art Unit 2877